

METHODS AND APPARATUS FOR CORONARY-SPECIFIC IMAGING RECONSTRUCTION

Abstract of Disclosure

A method for imaging a desired coronary artery or desired portion thereof is provided. The method includes reconstructing a first 2D image of a first desired coronary artery branch segment utilizing a first projection dataset acquired during a first desired cardiac phase of a plurality of cardiac cycles to reduce motion artifacts of the first desired coronary artery branch segment, reconstructing a second 2D image of a second desired coronary artery branch segment utilizing a second projection dataset acquired during a second desired cardiac phase of the plurality of cardiac cycles to reduce motion artifacts of the second desired coronary artery branch segment, and reconstructing at least one 3D image of the coronary artery utilizing the first 2D image and the second 2D image.